

Appl. No. 10/531,191
Amdt. dated June 13, 2007
Reply to Office Action of May 16, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims 1-4 and 6 as follows:

1. (currently amended) A method ~~for producing a cathode material for a lithium battery~~, comprising the steps of mixing a compound which releases phosphate ions in a solution with metal iron to cause dissolution and reaction of the metal iron in an acidic solution, and calcining the reaction mixture to synthesize ferric phosphate cathode material for a lithium battery.
2. (currently amended) A method ~~for producing a cathode material for a lithium battery~~, comprising the steps of reacting a compound which releases phosphate ions in a solution with metal iron while grinding the mixture of the compound and the metal iron in an aqueous solution to renew surfaces of the metal iron, and calcining the reaction mixture to synthesize ferric phosphate cathode material for a lithium battery.
3. (currently amended) The method ~~for producing a cathode material for a lithium battery~~ according to claim 1 wherein the compound which releases phosphate ions in a solution is phosphoric acid, phosphorous pentoxide, or ammonium dihydrogenphosphate.
4. (currently amended) A method ~~for producing a cathode material for a lithium battery~~ comprising the steps of adding a conductive carbon to the cathode material produced by the method according to any one of claims 1 to 3 or 6, and pulverizing and mixing the mixture.

Appl. No. 10/531,191
Amdt. dated June 13, 2007
Reply to Office Action of May 16, 2007

5. (previously presented) A lithium battery using a cathode material produced by the method according to any one of claims 1 to 3 or 6 as a constituent component.

6. (currently amended) The method ~~for producing a cathode material for a lithium battery~~ according to claim 2 wherein the compound which releases phosphate ions in a solution is phosphoric acid, phosphorous pentoxide, or ammonium dihydrogenphosphate.

7. (previously presented) A lithium battery using a cathode material produced by the method according to claim 4 as a constituent component.